

Contents

Regular papers

- Preparation and structural characterization of *N*-glycated amino acid and linear or cyclic dipeptides containing the 6-amino-6-deoxy-1,2:3,4-di-*O*-isopropylidene- α -D-galactopyranose moiety
M. Čudić, B. Kojić-Prodić, V. Milinković, J. Horvat, Š. Horvat (Zagreb, Croatia), M. Elofsson and J. Kihlberg (Lund, Sweden) 1
- Investigation of the α -cyclodextrin-*myo*-inositol phosphate inclusion complex by NMR spectroscopy and molecular modeling
S. Crouzy (Grenoble, France), F. Fauvelle, J.-C. Debouzy (La Tronche, France), M. Göschl and Y. Chapron (Grenoble, France) 21
- Furanose vs. acyclic forms of carbohydrate ligands. A multinuclear NMR spectroscopy study of the molybdate and tungstate complexes of D-*glycero*-L-*manno*-heptose
M. Matulová (Bratislava, Slovak Republic), J.-F. Verchère and S. Chapelle (Mont-Saint-Aignan, France) 37
- A novel approach to the 1-deoxynojirimycin system: synthesis from sucrose of 2-acetamido-1,2-dideoxynojirimycin, as well as some 2-*N*-modified derivatives
G. Gradnig (Graz, Austria), G. Legler (Köln, Germany) and A.E. Stütz (Graz, Austria) 49
- Structure of amylovoran, the capsular exopolysaccharide from the fire blight pathogen *Erwinia amylovora*
M. Nimtz (Braunschweig, Germany), A. Mort (Stillwater, OK, USA), T. Domke, V. Wray (Braunschweig, Germany), Y. Zhang (Heidelberg, Germany), F. Qiu (Stillwater, OK, USA), D. Coplin (Columbus, OH, USA) and K. Geider (Heidelberg, Germany) 59
- Polysaccharides as carriers for magnetic resonance imaging contrast agents: synthesis and stability of a new amino acid linker derivative
P. Rongved, T.H. Fritzell, P. Strande and J. Klaveness (Oslo, Norway) 77
- Structure of the O-specific polysaccharide, containing a glycerol phosphate substituent, of *Hafnia alvei* strain 1220 lipopolysaccharide
U. Dabrowski, J. Dabrowski (Heidelberg, Germany), E. Katzenellenbogen, M. Bogulska and E. Romanowska (Wrocław, Poland) 91
- Biosynthesis of agar polysaccharides in *Gracilaria chilensis* Bird, McLachlan *et* Oliveira
J.A. Hemmingson, R.H. Furneaux (Lower Hutt, New Zealand) and V.H. Murray-Brown (Kilbirnie, New Zealand) 101

Notes

- Crystal structure of an adduct of sarcosine with sucrose
R.V. Krishnakumar and S. Natarajan (Madurai, India) 117

- Determination of the O-specific polysaccharide structure in the lipopolysaccharide of *Ochrobactrum anthropi* LMG 3331
J. Velasco (Pamplona, Spain; Borstel, Germany), H. Moll, E.V. Vinogradov (Borstel, Germany), I. Moriyón (Pamplona, Spain) and U. Zähringer (Borstel, Germany) 123

- Information for Authors C1

Regular Papers

- Thermodynamics of the interaction of α -cyclodextrin with monocarboxylic acids in aqueous solutions: a calorimetric study at 25 °C
G. Castronuovo, V. Elia, D. Fessas, F. Velleca and G. Viscardi (Naples, Italy) 127

- Analysis of charged cyclomalto-oligosaccharides (cyclodextrin) derivatives by ion-spray, matrix-assisted laser-desorption/ionization time-of-flight and fast-atom bombardment mass spectrometry, and by capillary electrophoresis
B. Chankvetadze, G. Endresz, G. Blaschke (Münster, Germany), M. Juza, H. Jakubetz and V. Schurig (Tübingen, Germany) 139

- Transition-metal-saccharide chemistry: synthesis and characterisation of D-galactose, D-fructose, D-glucose, D-xylose, D-ribose, and maltose complexes of Mn(II)
R.P. Bandwar and C.P. Rao (Bombay, India) 157

- A Ca^{2+} -mobilising carbohydrate-based polyphosphate: synthesis of 2-hydroxyethyl α -D-glucopyranoside 2',3,4-trisphosphate
D.J. Jenkins and B.V.L. Potter (Bath, UK) 169

- Di-D-fructose dianhydrides and related oligomers from thermal treatments of inulin and sucrose
M. Manley-Harris and G.N. Richards (Missoula, MT, USA) 183

- The glycans of horseradish peroxidase
B.Y. Yang, J.S.S. Gray and R. Montgomery (Iowa City, IA, USA) 203

- Isolation by HPLC of the positional isomers of heterogeneous doubly branched cyclomaltohexaose having one α -D-galactosyl and one α -D-glucosyl side chain and determination of their structures by enzymatic degradation
Y. Okada, K. Koizumi (Nishinomiya, Japan) and S. Kitahata (Osaka, Japan) 213

- Structural studies of the *Vibrio salmonicida* lipopolysaccharide
P. Edebrink (Stockholm, Sweden), P.-E. Jansson (Huddinge, Sweden), J. Bøgwald and J. Hoffman (Tromsø, Norway) 225

Notes

- Glycosylation reactions of 2,3,4-tri-O-chlorosulfonyl- β -L-fucopyranosyl chloride and 2,3,4-tri-O-chlorosulfonyl- β -D-xylopyranosyl chloride
R.E. Hubbard (York, UK), J.G. Montana (Cambridge, UK), P.V. Murphy and R.J.K. Taylor (York, UK) 247

- Reaction of enzymes with starch granules: reaction of isoamylase with native and gelatinized granules
A. Kimura and J.F. Robyt (Ames, IA, USA) 255

Contents

C13

The one-pot esterification of phosphoric acids with silver carbonate and alkyl halides in refluxing toluene J. Gigg and R. Gigg (London, UK)	263
A convenient preparation of maltooctaose and maltononaose by the coupling reaction of cyclomal-todextrinase R. Uchida, A. Nasu, K. Tobe, T. Oguma and N. Yamaji (Noda City, Japan)	271
<i>Author Index</i>	C3
<i>Subject Index</i>	C5
<i>Contents</i>	C11